

ABSTRACT OF THE DISCLOSURE

A method and apparatus for allocating a spare area to a recording medium, and a recording medium thereof. The method includes recording data in a data area of the recording medium according to a first recording operation, creating information regarding the adjusted spare area size, based on a defect contained in the recorded data, recording the information regarding the spare area and information regarding the defect, in the data recorded according to the first recording operation, as first temporary defect information in the data area, and recording defect management information for managing the first temporary defect information as first temporary defect management information in a temporary defect management information area which is present in at least one of a lead-in area, a lead-out area, and an outer area of the recording medium. Accordingly, a spare area is allocated to a recording medium according to the occurrence rate of defects in the recording medium, resulting in effective use of a data area.